

July-18-13 9:31:49 AM

Page 1

**Accept**

Setup Start \*NS1\*

Stop \*NS2\*

**Start Date:** 7/18/13      **Start Qty:** 1.00      **\*1\***

**Cust Item ID:**

**Required Date:** 8/01/13      **Req'd Qty:** 1.00      **\* 1 \***

**Customer:**

**Reference:**

Approvals: Process Plan: MLJ Date: 13-07-18 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start \*NR1\*

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop \*NR2\*

[illegible]

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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# Work Order ID 104768

July-18-13 9:31:49 AM

\*104768\*

Page 2

Item ID: 647.1302

Accept

\*N900040100\*

Setup Start \*NS1\*

Revision ID:

Item Name: EC145 Cable Cutter Removable Provisions

Stop \*NS2\*

Start Date: 7/18/13 Start Qty: 1.00 \*1\*

Cust Item ID:

Required Date: 8/01/13 Req'd Qty: 1.00 \*1\*

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start \*NR1\*

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop \*NR2\*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
*130*									
Packaging	Memo 16	0.00							
Packaging	Identify and pack for shipping as per PPP 647.1302								
	Location: 08								
140	QC21- Final Inspection - Work Order Release	0.00							
*140*									
QC	Memo	0.00							
Quality Control									

DAS  
6  
9-89 14-1-28

MLJ 14-01-28

14-01-28

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

**FAULT CATEGORY**

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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# Picklist Print

July-18-13 9:31:52 AM

Page 1

Work Order ID: 104768

\*104768\*

Parent Item: 647.1302

\*647 1302\*

Parent Item Name: EC145 Cable Cutter Removable Provisions

Start Date: 7/18/13

Required Date: 8/01/13

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.05 NEW ISSUE DD VERF:JLM  
REV:B 13.07.17 AS PER REV B JLM VERIFIED BY:DD IPP

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.1401 <b>*647 1401*</b> Upper Cutter Assembly	DAS 6 9-89	Manufactured	No				Each	2.0000	**			DAS 33 9-89	
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				FG			1						
				91977			1						
				ST538			1						
				92538			1			92538			
647.1402 <b>*647 1402*</b> Lower Cutter Assembly	DAS 6 9-89	Manufactured	No				Each	0.0000	**			DAS 33 9-89	
647.1701 <b>*647 1701*</b> Skid Deflector Assembly	DAS 6 9-89	Manufactured	No				Each	0.0000	**			DAS 28 9-89	14-01-17
647.2110 <b>*647 2110*</b> Lower Rail	DAS 6 9-89	Manufactured	No				Each	14.0000	**			DAS 33 9-89	14-01-10
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				ST139C			14						
				125082			14			125802			

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence
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<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other	
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# Picklist Print

July-18-13 9:31:52 AM

Page 2

Work Order ID: 104768

\*104768\*

Parent Item: 647.1302

\*647 1302\*

Parent Item Name: EC145 Cable Cutter Removable Provisions

Start Date: 7/18/13

Required Date: 8/01/13

Start Qty: 1.00

Required Qty: 1.00

647.0112

Manufactured No

Each 175.0000

\*647-0112\*

STRUT BRACKET

\*\*

DAS

33

9-89

DAS  
6  
9-89

## Location

## Loc Qty

## Loc Code

ST139A

97

91792

29

91975

14

92065

22

92480

8

93169

24

ST437

78

89701

78

Each

28.0000

Manufactured No

647.2011

\*647-2011\*

Lower Strut

DAS  
6  
9-89

\*\*

DAS

33

9-89

## Location

## Loc Qty

## Loc Code

ST139C

28

125082

12

91803

12

92560

4

Each

978.0000

Purchased No

AN3-11A

\*AN3-11A\*

Bolt

DAS  
6  
9-89

\*\*

DAS

33

9-89

## Location

## Loc Qty

## Loc Code

ST351

500

m125709

500

ST512

478

115457

100

123352

200

123759

178

July-18-13 9:31:52 AM

Shop Packet Print

Page 2

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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# Picklist Print

July-18-13 9:31:52 AM

Page 3

Work Order ID: 104768

\*104768\*

Parent Item: 647.1302

\*647 1302\*

Parent Item Name: EC145 Cable Cutter Removable Provisions

Start Date: 7/18/13

Required Date: 8/01/13

Start Qty: 1.00

Required Qty: 1.00

AN3C10A

Purchased No

Each 29.0000

**\*AN3C10A\***

Bolt

DAS  
6  
9-89

Location

Loc Qty

Loc Code

ST351

29

119798

2

123522

27

Each

3,056.000

\*\*

DAS

33

9-89

MS27039-08-10

Purchased No

**\*MS27039-08-10\***

Screw

DAS  
6  
9-89

Location

Loc Qty

Loc Code

Mezz

6

5865

6

ST307

1517

123100

896

123265

47

123603

174

124555

400

ST308

1133

123100

1133

ST508

400

124093

400

123522

4

127430

DAS

33

9-89

14-01-10

DAS  
6  
9-89

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td style="width: 33%;">           Skid-tube <input type="checkbox"/>            Machining <input type="checkbox"/>            Thermoforming <input type="checkbox"/>            Large Fab <input type="checkbox"/> </td> <td style="width: 33%;">           Crosstube <input type="checkbox"/>            Small Fab <input type="checkbox"/>            Finishing <input type="checkbox"/>            Composite <input type="checkbox"/> </td> <td style="width: 33%;">           Water Jet <input type="checkbox"/>            Prod. Eng. Coord. <input type="checkbox"/>            Rec/Store/Packaging <input type="checkbox"/>            Supplier <input type="checkbox"/> </td> <td style="width: 33%;">           Engineering <input type="checkbox"/>            Quality <input type="checkbox"/>            Other <input type="checkbox"/> </td> </tr> </table>	Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/>	Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/>	Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/>	Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/>
Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/>	Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/>	Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/>	Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/>			

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
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Equip/Tooling									
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Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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# Picklist Print

July-18-13 9:31:52 AM

Page 4

Work Order ID: 104768

Parent Item: 647.1302

Parent Item Name: EC145 Cable Cutter Removable Provisions

\*104768\*

\*647 1302\*

Start Date: 7/18/13

Required Date: 8/01/13

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

Each

10,066.00

32

**\*NAS1149F0332P\***

Washer

\*\*

DAS

33

9-89

DAS

6

9-89

Location

Loc Qty

Loc Code

GA

182

122063

182

ST294

158

122063

158

ST295

3

123352

3

st510

4723

123900

4723

ST510a

5000

125646

5000

NAS1149FN832P

Purchased

No

Each

15,945.00

8

**\*NAS1149FN832P\***

Washer

\*\*

DAS

33

9-89

DAS

6

9-89

Location

Loc Qty

Loc Code

ST294

5953

123522

400

123900

5553

ST510a

9992

125268

9992

MS21042-3

MS21042L3

Purchased

No

Each

686.0000

16

**\*MS21042-3\***

Nut

\*\*

DAS

33

9-89

DAS

6

9-89

Location

Loc Qty

Loc Code

ST314

686

123352

186

123525

500

July-18-13 9:31:52 AM

Shop Packet Print

Page 4

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td style="width: 33%;">           Skid-tube <input type="checkbox"/>            Machining <input type="checkbox"/>            Thermoforming <input type="checkbox"/>            Large Fab <input type="checkbox"/> </td> <td style="width: 33%;">           Crosstube <input type="checkbox"/>            Small Fab <input type="checkbox"/>            Finishing <input type="checkbox"/>            Composite <input type="checkbox"/> </td> <td style="width: 33%;">           Water Jet <input type="checkbox"/>            Prod. Eng. Coord. <input type="checkbox"/>            Rec/Store/Packaging <input type="checkbox"/>            Supplier <input type="checkbox"/> </td> <td style="width: 33%;">           Engineering <input type="checkbox"/>            Quality <input type="checkbox"/>            Other <input type="checkbox"/> </td> </tr> </table>	Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/>	Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/>	Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/>	Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/>
Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/>	Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/>	Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/>	Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/>			

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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# Picklist Print

July-18-13 9:31:52 AM

Page 5

Work Order ID: 104768

Parent Item: 647.1302

Parent Item Name: EC145 Cable Cutter Removable Provisions

\*104768\*

\*647 1302\*

Start Date: 7/18/13

Required Date: 8/01/13

Start Qty: 1.00

Required Qty: 1.00

MS21042-08

Purchased

No

Each

1,052.000

4

\*\*

DAS

33

9-89

\*MS21042-08\*

MS21042L08

DAS

6

9-89

Location

Loc Qty

Loc Code

ST314

952

123525

952

ST315

100

123352

100

123525

MS21042L4

Purchased

No

Each

7,318.000

4

\*\*

DAS

33

9-89

\*MS21042L4\*

Nut

127376

14-01-10

DAS

6

9-89

Location

Loc Qty

Loc Code

FP001

50

122452

38

8182

12

ST314

10

m125708

10

ST506

11

121444

11

st507

791

125535

95

m126073

696

ST509

4000

m126275

4000

ST510a

2250

m126333

2250

ST518

206

124231

206

July-18-13 9:31:52 AM

Shop Packet Print

Page 5

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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# Picklist Print

July-18-13 9:31:52 AM

Page 6

Work Order ID: 104768

\*104768\*

Parent Item: 647.1302

\*647 1302\*

Parent Item Name: EC145 Cable Cutter Removable Provisions

Start Date: 7/18/13

Required Date: 8/01/13

Start Qty: 1.00

Required Qty: 1.00

601.2045

Purchased No

Each 323.0000

\*\*

DAS  
33  
9-89

\*601 2045\*

RTV (LOCTITE 598)

DAS  
6  
9-89

## Location

## Loc Qty

## Loc Code

ST

323

125540

74

125637

69

125792

90

m125792

90

125540

DAS  
33  
9-89

647.2010

Manufactured No

Each 60.0000

\*\*

DAS  
33  
9-89

\*647 2010\*

Upper Strut

14-01-10

## Location

## Loc Qty

## Loc Code

ST139C

3

125082

3

ST439

57

91802

12

91895

43

92516

2

91802

DAS  
33  
9-89

DAS  
6  
9-89

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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# APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO. 03919

SHEET 1 OF 1

DWG NO. 647.1300

REV: A

PREPARED BY: J. BECKER

DATE: 07/05/13

EFFECT ON DWG  
☒ INC. ☐ UNINC.

DWG TITLE: EC145 CABLE CUTTERS KIT

APPROVED BY:

ENGR:

MFG

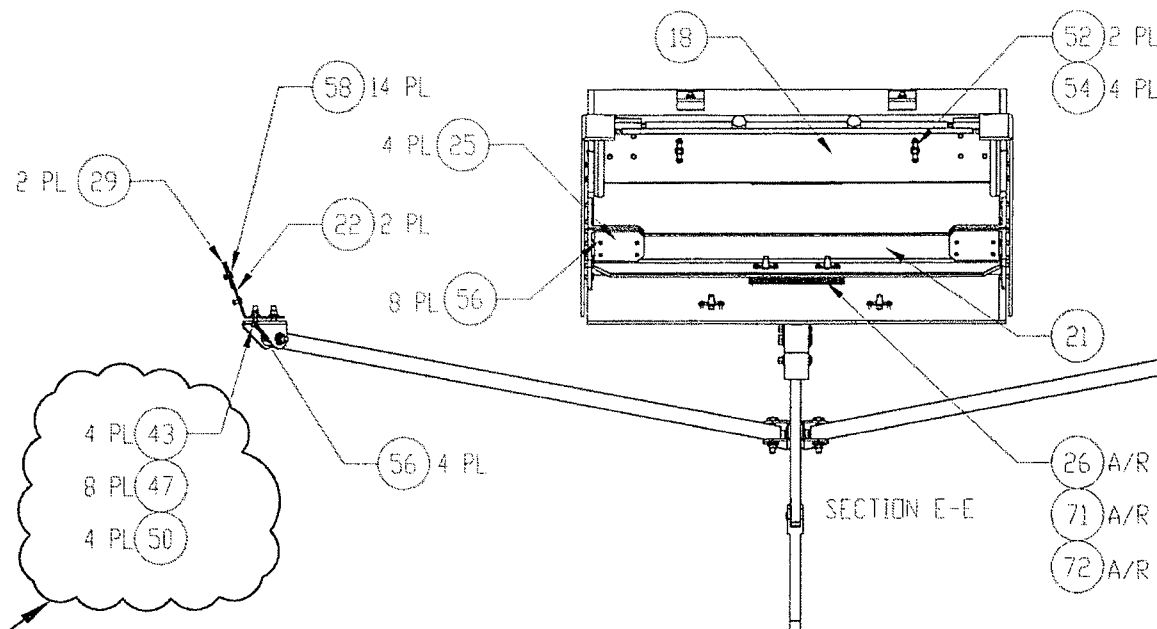
QC

EFF:

NEXT ORDER

TRANSACTION CODES (TC):  
A-ADD C-CREATE  
R-REVISE D-DELETE

REASON: ADDED CONFIGURATIONS .1304, .1305, .1306, REVISED BOM. SEE DRAWING.  
ADDED SHEETS 8 & 9. ADDED F/N'S 76-85. ADDED NOTES 4, 5, & 6.











SH 100  
REF  
ENGINE  
UNCONTROLLED  
SUBJECT TO  
WITH  
WORK  
NO. 104768 MJS  
13-07-18

SHEET 6, ZONE B1:

	C	647.1306	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FIXED PROVISIONS KIT U CHANNEL		
	C	647.1305	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	REMOVABLE PROVISIONS KIT U CHANNEL		
	C	647.1304	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EC145 CABLE CUTTERS KIT U CHANNEL COMPATIBLE		
F/N	TC	PART NUMBER	.1306	.1305	.1304	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY					
DOCUMENTS EFFECTED:						CHANGE CATEGORY	DER REVIEW REQUIRED	
<input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRU <input type="checkbox"/> ICA <input checked="" type="checkbox"/> BOM						<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	


NOTES: UNLESS OTHERWISE SPECIFIED

1. AFTER INSTALLATION, APPLY F/N 73 A/R TO FILL GAPS AND FILLET EDGES
2. APPLY F/N 74 TO FAYING SURFACES
3. AT CUSTOMERS OPTION, INSTALL F/N 77 BY MATCH DRILLING ONTO F/N 1
4. INSTALL FOR 647.1301, 647.1302.
5. INSTALL FOR 647.1304, 647.1305.
6. APPLICABLE WHEN EUROCOPTER P/N 145-250014.11 IS INSTALLED WITH EUROCOPTER CABLE CUTTER FIXED PROVISIONS.

13		13	13		13	26	647.1812	SHIM			
4		4	4		4	23	647.1910	CLIP			
1		1	1		1	24	647.1810	NOSE DOOR DOUBLER			
1		1	1		1	23	647.1818	NOSE DOOR SPACER			
2		2	2		2	22	647.1813	ANGLE			
1		1	1		1	21	647.1913	TEE			
1		1	1		1	20	647.1814	GUSSET, LH			
1		1	1		1	19	647.1815	GUSSET, RH			
1		1	1		1	18	647.1915	SUPPORT ANGLE			
	2	2		2	2	17	647.2011	LOWER STRUT			
1		1	1		1	16	647.1914	BRACKET			
1		1	1		1	15	647.1816	SUPPORT, LH			
1		1	1		1	14	647.1817	SUPPORT, RH			
1		1	1		1	13	647.1912	BRACKET, LH			
1		1	1		1	12	647.1911	BRACKET, RH			
4		4	4	4	8	11	647.0112	STRUT BRACKET			
				1	1	10	647.2110	LOWER RAIL			
			1		1	9	647.2111	UPPER RAIL			
1		1	1		1	8	647.1610	WIPER DEFLECTOR, FWD			
1		1	1		1	7	647.1601	WIPER DEFLECTOR ASSY, AFT			
				2	2	6	647.1701	SKID DEFLECTOR ASSY			
1		1	1		1	5	647.3201	GROUNDING CABLE ASSY			
1		1	1		1	4	647.2201	CROSS ASSY			
1		1	1		1	3	647.1602	DOUBLER ASSY			
	1	1		1	1	2	647.1402	CUTTER ASSY (LOWER)			
				1	1	1	647.1401	CUTTER ASSY (UPPER)			
							647.1306	FIXED PROVISIONS KIT U CHANNEL			
							647.1305	REMOVABLE PROVISIONS KIT U CHANNEL			
							647.1304	EC145 CABLE CUTTERS KIT U CHANNEL COMPATIBLE			
							647.1303	FIXED PROVISIONS KIT			
							647.1302	REMOVABLE PROVISIONS KIT			
							647.1301	EC145 CABLE CUTTERS KIT			
1306	1305	1304	1303	1302	1301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC	

BOM Table(Restructured)				PARTS LIST			
QTY		ORIGINAL DATE UNLESS NOTED		<b>APICAL INDUSTRIES</b> 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92036-3512 (760)724-5235  <b>EC145 CABLE CUTTERS KIT</b>			
NEXT ASSY (S)		DRAFTER: ST CHECKER: R APPROVING: R DRAWING APPROVAL: R BRN: R CO-APPROVE: R					
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1. FRACTIONS: ±.005 2. DECIMALS: ±.005 3. ANGLES: ±.5° 4. HOLE LOCATIONS: ±.010		SEE CAGE CODES B 07M26 SCALE: NONE		DWG. NO. 647.1300 SHEET 1 OF 5	

104768

	2	2				85	647.1702	SKID DEFLECTOR ASSY		
	1	1				84	647.2113	LOWER RAIL (U CHANNEL KIT)		
	8	8				83	601.3655	WASHER	LN9025-0820K	
	8	8				82	601.3654	SCREW	LN9037-8018	
1		1				81	647.2112	UPPER U CHANNEL		
	4	4				80	601.3653	WASHER	93475A270	
	2	2				79	601.3652	LOCKNUT	93625A300	
	2	2				78	601.3651	SCREW	91292A080	
	1	1				77	647.1403	CUTTER ASSY (UPPER U CHANNEL)		
	5	5				76	601.3650	BOLT	AN3-15A	
REF			REF	REF	REF	75	647.5701	GPS MOUNT KIT		
2		2	2		2	74	601.1954	SCREW	MS27039-1-17	
	2	2		2	2	73	647.2010	UPPER STRUT		
	1	1		1	1	72	601.2045	RTV	LOCTITE 598	
1		1	1		1	71	600.1012	SEALANT	PR-1425 CLASS B	
1		1	1		1	70	600.0991	MAGNOBOND 6398 PART B		
1		1	1		1	69	600.0990	MAGNOBOND 6398 PART A		
4		4	4		4	68	601.3012	SCREW	MS27039-1-15	
2		2	2		2	67	601.3004	CAMLOC STUD		
2		2	2		2	66	601.3005	CAMLOC RETAINER		
2		2	2		2	65	601.3006	CAMLOC RECEPTACLE		
3 FT.		3 FT.	3 FT.		3 FT.	64	601.3011	P-SEAL		
1.1 FT.		1.1 FT.	1.1 FT.		1.1 FT.	63	601.3007	GROMMET	MS21266-2N	
2		2	2		2	62	601.3008	INSERT	NAS1834C-300	
11		11	11		11	61	601.2991	RIVET	CR3213-4-6	
2		2	2		2	60	601.1039	RIVET	CR3213-4-2	
8		8	8		8	59	601.1183	RIVET	CR3213-4-5	
.1306	.1305	.1304	.1303	.1302	.1301	FIND #	PART #	DESCRIPTION	MATL	SPEC.

BOM Table (Restructured)

22		22	22		22	56	601.1915	RIVET		CR3213-4-4	
8		8	8		8	57	601.2995	RIVET		CR3213-4-6	
4		4	4		32	56	601.1915	RIVET		CR3213-4-4	
12		12	12		12	55	601.2207	NUTPLATE RIVET		CCR2645S-3-03	
4		4	4		4	54	601.1983	NUTPLATE RIVET		CCR2745S-3-03	
12		12	12		12	53	601.2980	NUTPLATE RIVET		CCR2645S-3-04	
12		12	12		12	52	600.0795	NUTPLATE		MS21047-3	
	4	4		4	4	51	601.3209	LOCKNUT		MS21042L4	
5	4	9	5	4	9	50	601.2973	LOCKNUT		MS21042-08	
29	17	46	29	16	45	49	601.2943	LOCKNUT		MS21042-3	
3		3	3		3	48	601.2375	WASHER			
10	8	18	10	8	18	47	601.2764	WASHER		NAS1149FN832P	
	70	32	70	32	102	46	601.1607	WASHER		NAS1149F0332P	
1		1	1		1	45	601.2525	SCREW		MS27039-0807	
4		4	4		4	44	601.1952	SCREW		MS27039-1-20	
	4	4		4	4	43	601.3010	SCREW		MS27039-0810	
4		4	4		4	42	601.3224	SCREW		AN525-10R12	
6		6	6		6	41	601.1365	SCREW		MS27039-1-10	
3		3	3		3	40	601.2198	SCREW		MS27039-1-07	
3		3	3		3	39	601.2999	SCREW			
18		18	18		18	38	601.2459	SCREW		MS27039C1-06	
4		4	4		4	37	601.1622	SCREW		MS27039-1-14	
10		10	10		10	36	601.2051	SCREW		MS24694C52	
2		2	2		2	35	601.2823	BOLT		AN3-4A	
1		1	1		1	34	601.1324	BOLT		AN4CH6A	
	2	2		2	2	33	601.1874	BOLT		AN3C10A	
	12	12		16	16	32	601.2826	BOLT		AN3-11A	
8		8	8		8	31	601.2638	WASHER		NAS1149F0432P	
4		4	4		4	30	601.3002	BOLT		NAS6604-66	
2		2	2		2	29	647.1811	SPACER			
4		4	4		4	28	647.2511	NUT			
4		4	4		4	27	647.2510	SLEEVE			
.1306	.1305	.1304	.1303	.1302	.1301	FIND #	PART #	DESCRIPTION	MATL	SPEC.	

BOM Table (Restructured)

ORIGINAL DATE 02-01-06  
 DRAWN BY S. ROSARIO  
 CHECKED D. BAPPER  
 DRAWING APPROVAL P. BRAYO 06/05/07  
 CONTRACT NO.

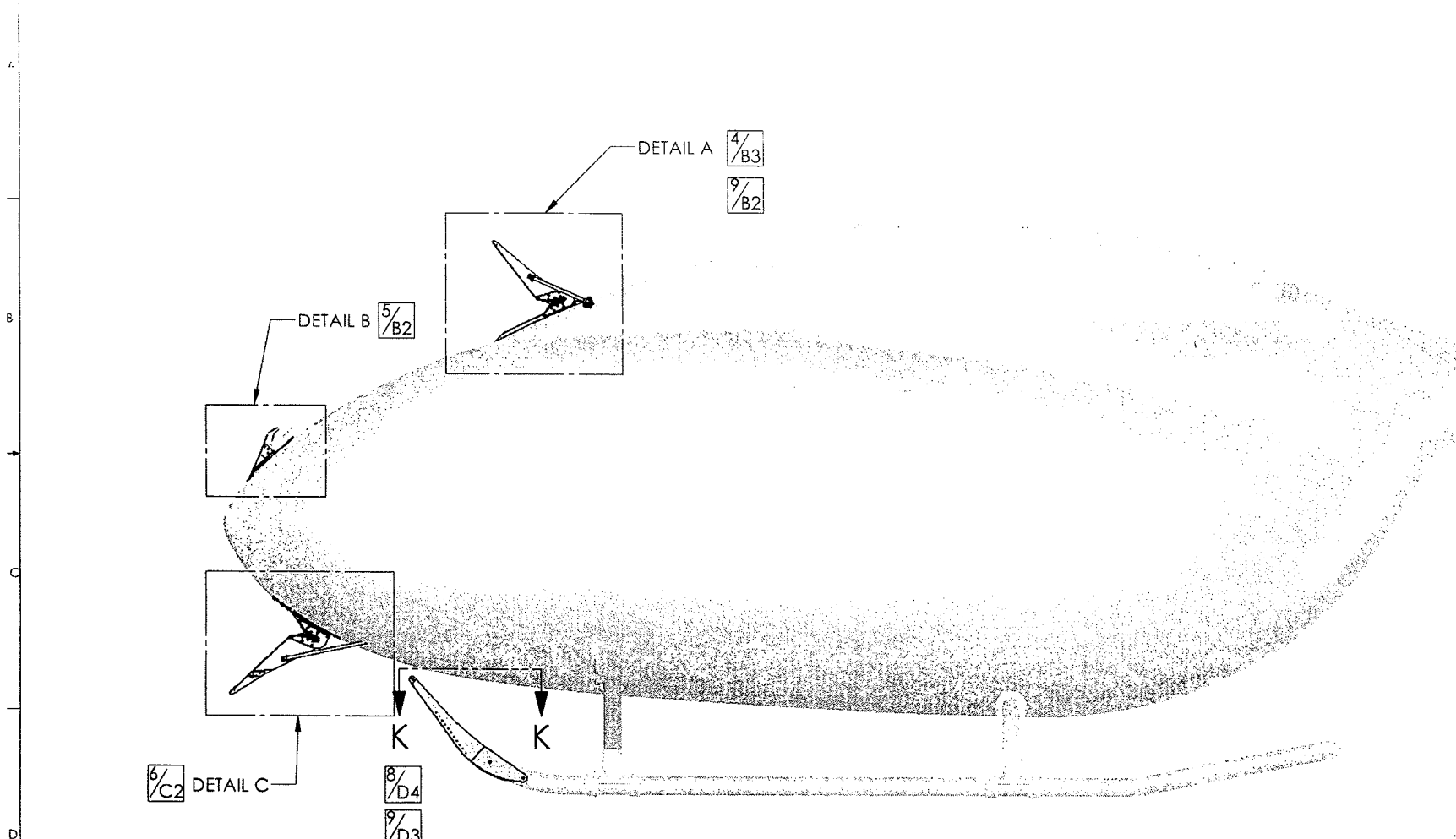
UNLESS OTHERWISE SPECIFIED  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES ARE:  
 3 PLACE DECIMALS ±.03  
 2 PLACE DECIMALS ±.02  
 1 PLACE DECIMALS ±.01  
 ANGLES ±.5°

**APICAL INDUSTRIES**  
 2608 TEMPLE HEIGHTS DR.  
 OCEANSIDE, CA. 92056-3512 (760)724-5300

**EC145 CABLE CUTTERS KIT**

SHEET 8 OF 9  
 SCALE NONE  
 DWG NO. 647.1300  
 SHEET 2 OF 9

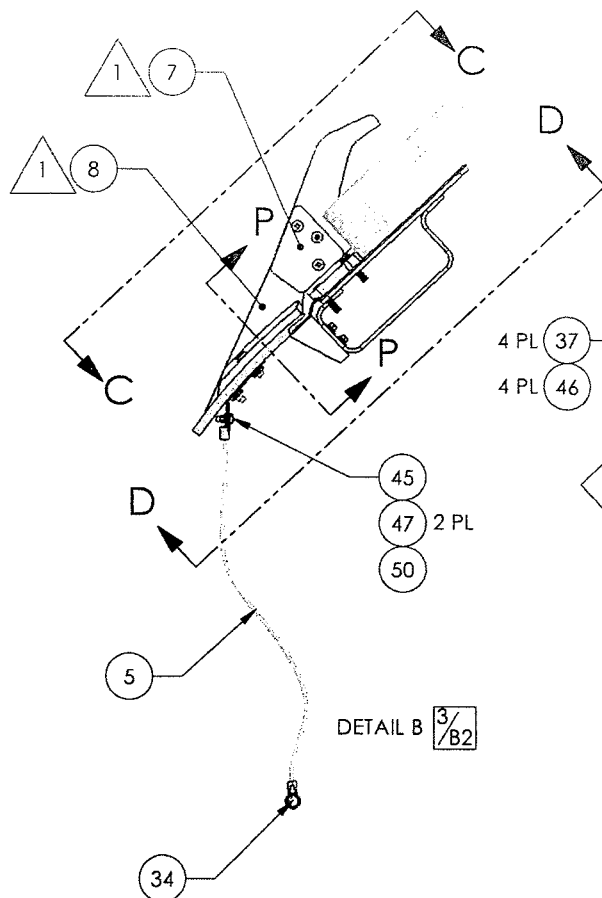
104768



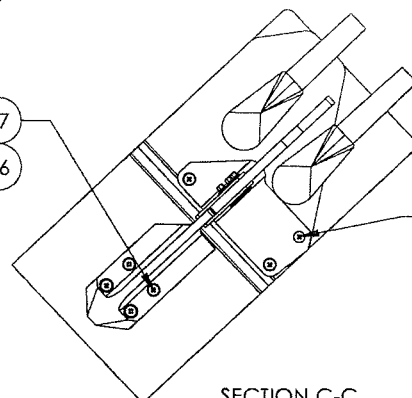
ORIGINAL DATE 07/01/00		APICAL INDUSTRIES	
DRAWN BY P. ROSARIO		2608 TEMPLE HEIGHTS DR.	
CHECKED BY D. BARBER		OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY APPROVAL P. ROSARIO		EC145 CABLE CUTTERS KIT	
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1. FRACTIONS ± .01 2. DECIMALS ± .01 3. ANGLES ± .5°		REV B	REV B
SCALE NONE		SHEET 3 OF 9	



104768

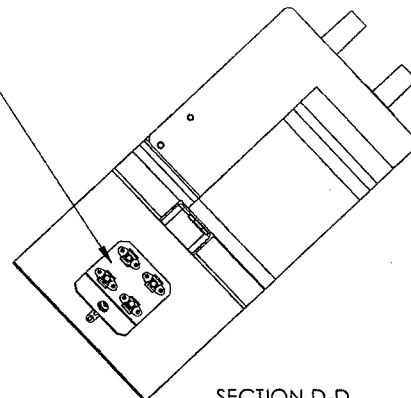


4 PL 37  
4 PL 46

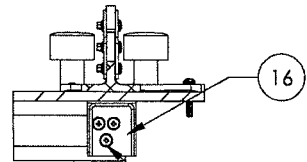


SECTION C-C

3



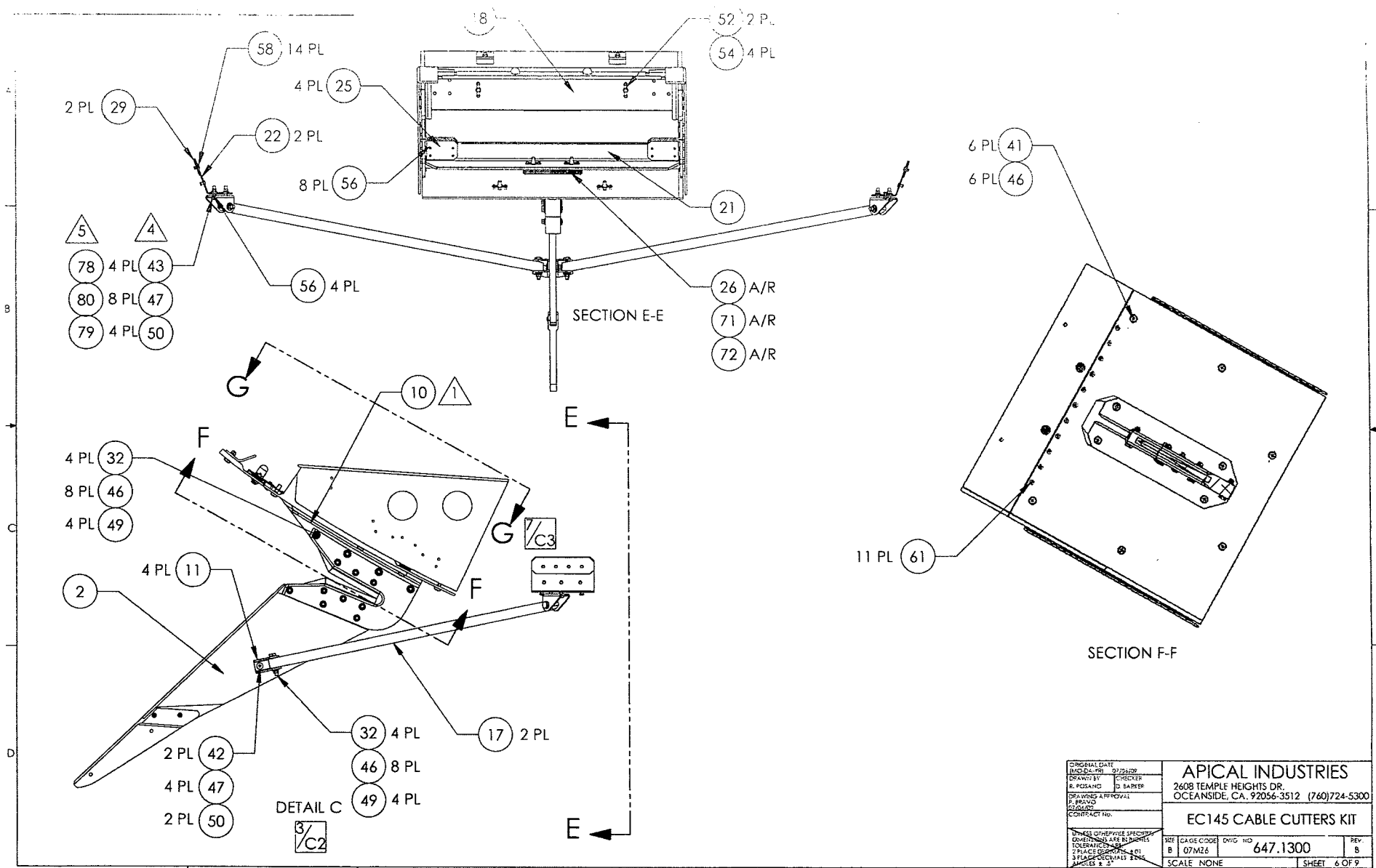
SECTION D-D



SECTION P-P

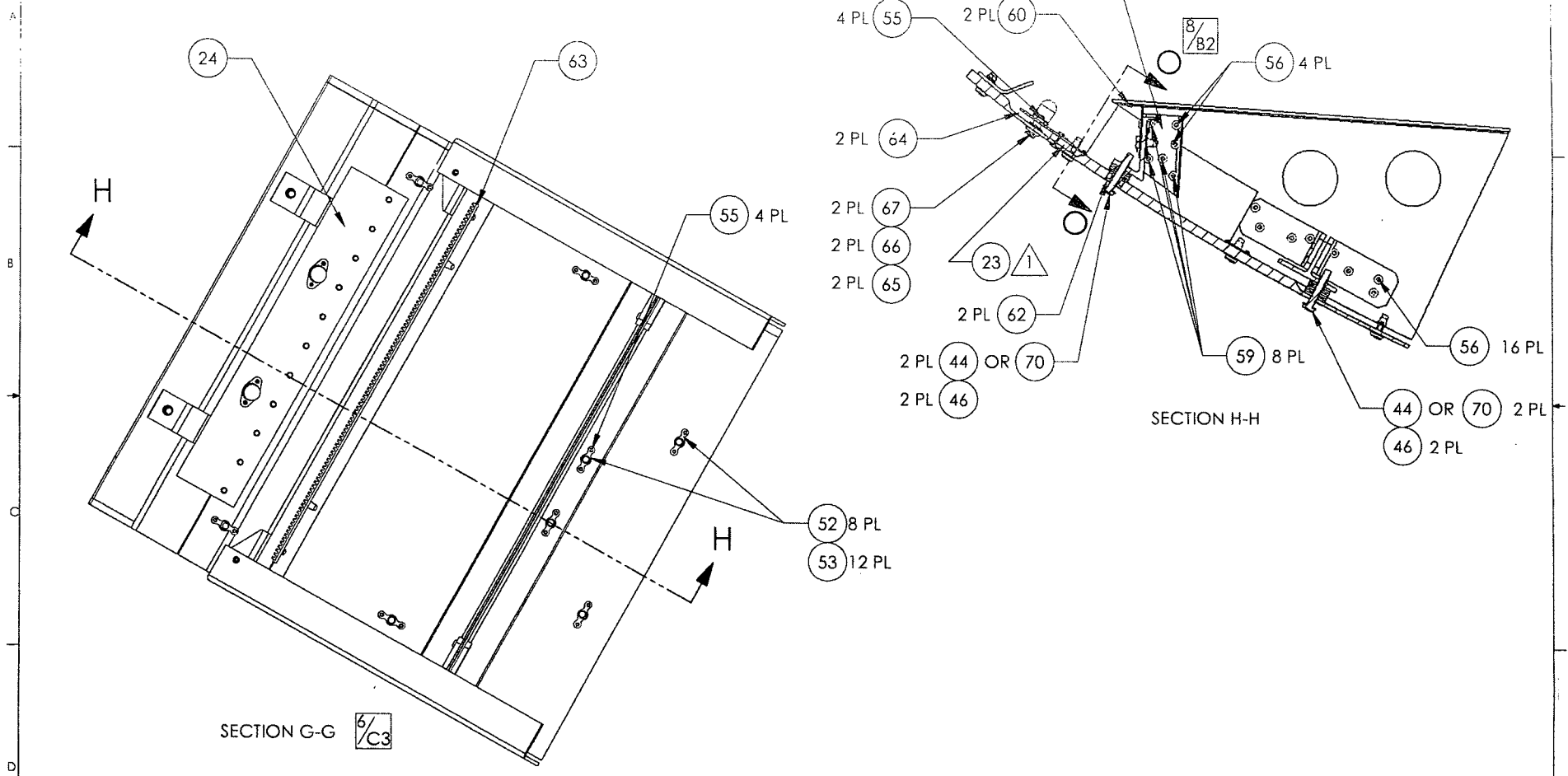
40 3 PL  
46 6 PL  
49 3 PL

ORIGINAL DATE 10/04/10		APICAL INDUSTRIES	
DRAWN BY R. ROSSANO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
CHECKED BY D. BARRETT		EC145 CABLE CUTTERS KIT	
DRAWING APPROVAL R. ROSSANO		REV. B	8
CONTRACT NO.		SCALE: NONE	SHEET 5 OF 9



ORIGINAL DATE (MO-DAY-YR)		APICAL INDUSTRIES	
DRAWN BY R. POSEAND		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY D. BARBER		EC145 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BROWN		SIZE B	REV 8
C-CONTROL No.		CAGE CODE 07M26	QTY 647.1300
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS 3 PLACES DECIMALS 0.001 ANGLES ± 3°		SCALE NONE	SHEET 6 OF 9

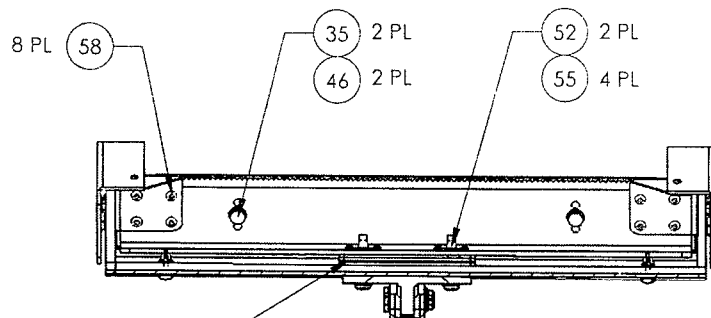
10/7/88



ORIGINAL DATE: 07/05/88 DRAWN BY: B. ROUSH CHECKER: D. BARKER DRAWING APPROVAL: F. BRAY DESIGNED: D. BARKER CONTRACT NO.:			
APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300			
EC145 CABLE CUTTERS KIT			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.001 FRACTIONS ±.001	SEE CAGE CODE 8 07M26	QWG NO. 647.1300	REV 6
SCALE: NONE		SHEET 7 OF 9	



1047608

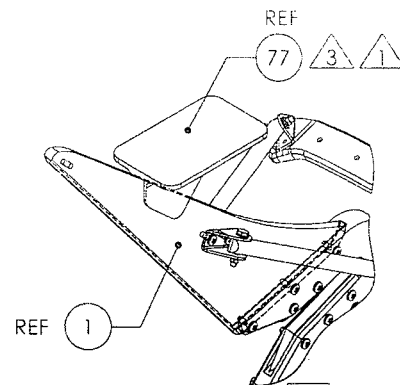


A/R (26)

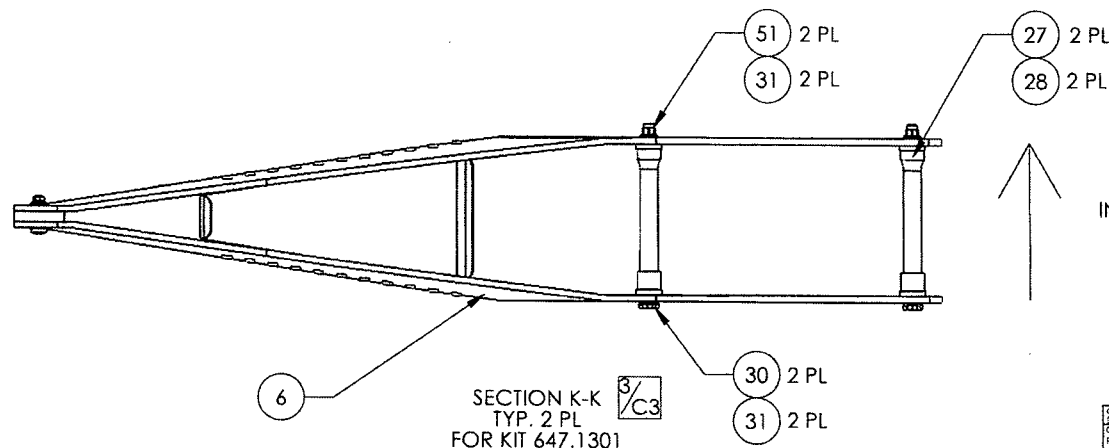
A/R (71)

A/R (72)

SECTION O-O  $\frac{1}{4}$ A6



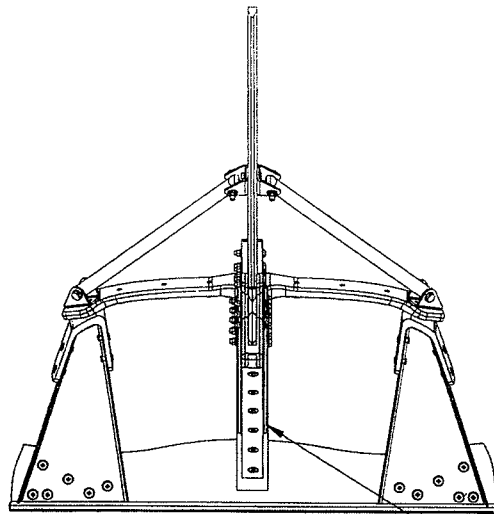
DETAIL D  $\frac{1}{4}$ A6  
SHOWN ISOMETRICALLY  
TYPICAL GPS MOUNT KIT INSTALLATION



INBOARD

SECTION K-K  $\frac{3}{8}$ C3  
TYP. 2 PL  
FOR KIT 647.1301

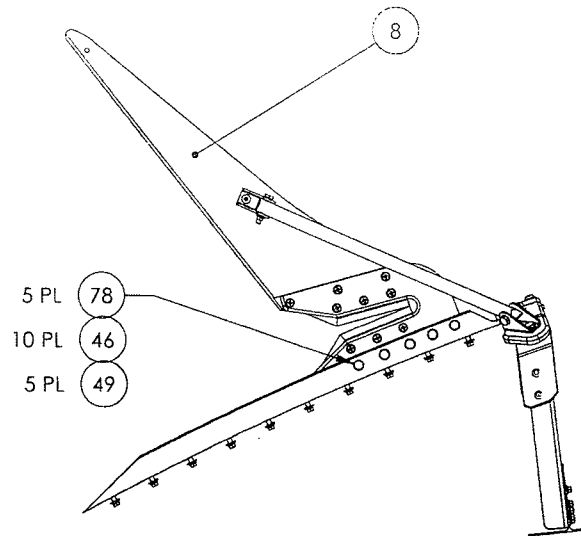
<small>           ORIGINAL DATE            MODIFIED BY            DRAWN BY            CHECKED BY            F. ROSAND            ID ENTER            DRAWING APPROVAL            P. BRAND            10/01/01            CONTRACT NO.         </small>		<b>APICAL INDUSTRIES</b> 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
<small>           UNLESS OTHERWISE SPECIFIED            DIMENSIONS ARE IN INCHES            TOLERANCES ARE:            FRACTIONS DECIMALS ANGLES            1/16 0.0015 1/16         </small>		SHEET (CAGE CODE) DWG. NO. 8 07ME6 647.1300	REV. 8
SCALE NONE		SHEET 8 OF 9	



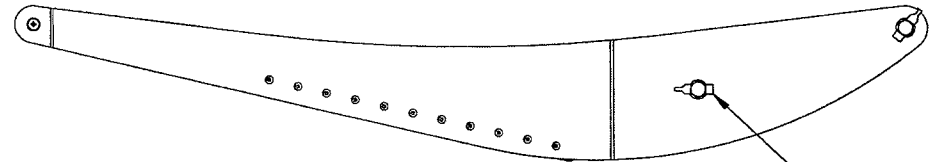
DETAIL A  
WITH U CHANNEL

84

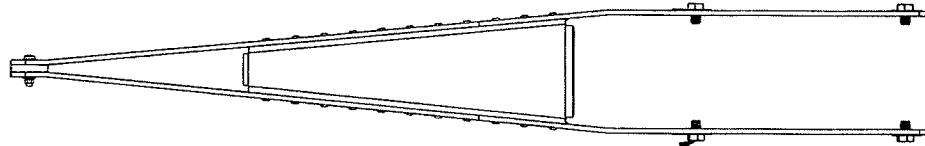
3/B3



5 PL 78  
10 PL 46  
5 PL 49



10 4 PL



4 PL 9

647.1702  
DETAIL K  
ALTERNATE CONFIGURATION

3/D3

ORIGINAL DATE (MM/DD/YY) 07/04/09		APICAL INDUSTRIES	
DRAWN BY P. ROLAND		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY D. BARRIE		EC145 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAY		REV	
DATE 07/04/09		8	
CONTRACT NO.		647.1300	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.002 ANGLES ±.5°		SCALE NONE	SHEET 9 OF 9

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF  
APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT  
THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

# NOTES: UNLESS OTHERWISE SPECIFIED

- 1 AFTER INSTALLATION, APPLY F/N 73 A/R TO FILL GAPS AND FILLET EDGES
- 2 APPLY F/N 74 TO FAYING SURFACES
- 3 AT CUSTOMERS OPTION, INSTALL F/N 77 BY MATCH DRILLING ONTO F/N 1
- 4 INSTALL FOR 647.1301, 647.1302.
- 5 INSTALL FOR 647.1304, 647.1305.
- 6 APPLICABLE WHEN EUROCOPTER P/N 145-250014.11 IS INSTALLED WITH EUROCOPTER CABLE CUTTER FIXED PROVISIONS.
- 7 APPLICABLE WHEN REPLACING EUROCOPTER P/N 145-250074.11

DAS  
6  
9-89

14-1-27  
REFERENCE ONLY

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVIEWED: PRO		N/C
1	INITIAL RELEASE	08/05/79	P. BRAVO
A	INCORPORATED ECH 02645, 03020, 03045	01/25/81	P. BRAVO
B	INCORPORATED ECH 02619	07/08/83	P. BRAVO
C	INCORPORATED ECH 04059	08/13/83	P. BRAVO

13		13	13		13	26	647.1812	SHIM		
4		4	4		4	25	647.1910	CLIP		
1		1	1		1	24	647.1810	NOSE DOOR DOUBLER		
1		1	1		1	23	647.1818	NOSE DOOR SPACER		
2		2	2		2	22	647.1813	ANGLE		
1		1	1		1	21	647.1913	TEE		
1		1	1		1	20	647.1814	GUSSET, LH		
1		1	1		1	19	647.1815	GUSSET, RH		
1		1	1		1	18	647.1915	SUPPORT ANGLE		
	2	2				17	647.2011	LOWER STRUT		
1		1	1		1	16	647.1914	BRACKET		
1		1	1		1	15	647.1816	SUPPORT, LH		
1		1	1		1	14	647.1817	SUPPORT, RH		
1		1	1		1	13	647.1912	BRACKET, LH		
1		1	1		1	12	647.1911	BRACKET, RH		
4		4	4		8	11	647.0112	STRUT BRACKET		
					1	10	647.2110	LOWER RAIL		
					1	9	647.2111	UPPER RAIL		
1		1	1		1	8	647.1610	WIPER DEFLECTOR, FWD		
1		1	1		1	7	647.1601	WIPER DEFLECTOR ASSY, AFT		
					2	6	647.1701	SKID DEFLECTOR ASSY		
1		1	1		1	5	647.3201	GROUNDING CABLE ASSY		
1		1	1		1	4	647.2201	CROSS ASSY		
1		1	1		1	3	647.1602	DOUBLER ASSY		
	1	1			1	2	647.1402	CUTTER ASSY (LOWER)		
					1	1	647.1401	CUTTER ASSY (UPPER)		
							647.1306	FIXED PROVISIONS KIT U CHANNEL		
							647.1305	REMOVABLE PROVISIONS KIT U CHANNEL		
							647.1304	EC145 CABLE CUTTERS KIT U CHANNEL COMPATIBLE		
							647.1303	FIXED PROVISIONS KIT		
							647.1302	REMOVABLE PROVISIONS KIT		
							647.1301	EC145 CABLE CUTTERS KIT		
.1306	.1305	.1304	.1303	.1302	.1301	FIND #	PART #	DESCRIPTION	MATL	SPEC.

BOM Table (Restructured)

QTY	ORIGINAL DATE MODIFIED BY DATE	DATE BY DATE	PARTS LIST
NEXT ASSY (S)	DRAWN BY P. KOJANG	CHECKED BY D. BARKER	<b>APICAL INDUSTRIES</b> 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300 <b>EC145 CABLE CUTTERS KIT</b>
	DRAWING APPROVAL P. BRAVO		
	CONTRACT NO.		
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DIMENSIONS ARE IN MILLIMETERS 2 PLACE DECIMALS 3 PLACE DECIMALS FRACTIONS 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8		
SIZE	CAGE CODE	DWG. NO.	REV.
B	07MZ6	647.1300	C
SCALE NONE			SHEET 1 OF 9

1 2 3 4 5 6 7 8

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

	2	2			85	647.1702	SKID DEFLECTOR ASSY		
	1	1			84	647.2113	LOWER RAIL (U CHANNEL KIT)		
	8	8			83	601.3655	WASHER	LN9025-0820K	
	8	8			82	601.3654	SCREW	LN9037-8018	
1	1	1			81	647.2112	UPPER U CHANNEL		
	4	4			80	601.3653	WASHER	93475A270	
	2	2			79	601.3652	LOCKNUT	93625A300	
	2	2			78	601.3651	SCREW	91292A080	
	1	1			77	647.1403	CUTTER ASSY (UPPER U CHANNEL)		
	5	5			76	601.3650	BOLT	AN3-15A	
REF			REF	REF	75	647.5701	GPS MOUNT KIT		
2	2	2		2	74	601.1954	SCREW	MS27039-1-17	
	2	2		2	73	647.2910	UPPER STRUT		
	1	1		1	72	601.2045	RTV	LOCTITE 598	
1	1	1		1	71	600.1012	SEALANT	PR-1425 CLASS B	
1	1	1		1	70	600.0991	MAGNOBOND 6398 PART B		
1	1	1		1	69	600.0990	MAGNOBOND 6398 PART A		
4	4	4		4	68	601.3012	SCREW	MS27039-1-15	
2	2	2		2	67	601.3004	CAMLOC STUD		
2	2	2		2	66	601.3005	CAMLOC RETAINER		
2	2	2		2	65	601.3006	CAMLOC RECEPTACLE		
3 FT.	3 FT.	3 FT.		3 FT.	64	601.3011	P-SEAL		
1.1 FT.	1.1 FT.	1.1 FT.		1.1 FT.	63	601.3007	GROMMET	MS21266-2N	
2	2	2		2	62	601.3008	INSERT	NAS1834C-300	
11	11	11		11	61	601.2991	RIVET	CR3213-4-6	
2	2	2		2	60	601.1039	RIVET	CR3213-4-2	
8	8	8		8	59	601.1183	RIVET	CR3213-4-5	
.1306	.1305	.1304	.1303	.1302	.1301	FIND #	PART #	DESCRIPTION	MATL SPEC.

BOM Table(Restructured)

22		22	22		22	58	601.0790	RIVET	CR3213-4-3	
8		8	8		8	57	601.2995	RIVET	CR3213-6-6	
4		4	4		32	56	601.1915	RIVET	CR3213-4-4	
12		12	12		12	55	601.2207	NUTPLATE RIVET	CCR2645S-3-03	
4		4	4		4	54	601.1983	NUTPLATE RIVET	CCR2745S-3-03	
12		12	12		12	53	601.2980	NUTPLATE RIVET	CCR2645S-3-04	
12		12	12		12	52	600.0795	NUTPLATE	MS21047-3	
	4	4		4	4	51	601.3209	LOCKNUT	MS21042L-4	
5	4	9	5		9	50	601.2973	LOCKNUT	MS21042-08	
29	17	46	29		45	49	601.2943	LOCKNUT	MS21042-3	
3		3	3		3	48	601.2375	WASHER		
10	8	18	10		18	47	601.2764	WASHER	NAS1149F0832P	
	70	32	70		102	46	601.1607	WASHER	NAS1149F0332P	
1		1	1		1	45	601.2525	SCREW	MS27039-0807	
4		4	4		4	44	601.1952	SCREW	MS27039-1-20	
	4	4		4	4	43	601.3010	SCREW	MS27039-0810	
4		4	4		4	42	601.3224	SCREW	AN525-10R12	
6		6	6		6	41	601.1365	SCREW	MS27039-1-10	
3		3	3		3	40	601.2198	SCREW	MS27039-1-07	
3		3	3		3	39	601.2999	SCREW		
18		18	18		18	38	601.2459	SCREW	MS27039C1-06	
4		4	4		4	37	601.1622	SCREW	MS27039-1-14	
10		10	10		10	36	601.2051	SCREW	MS24694C52	
2		2	2		2	35	601.2823	BOLT	AN3-4A	
1		1	1		1	34	601.1324	BOLT	AN4CH6A	
	2	2		2	33	601.1874	BOLT	AN3C10A		
	12	12		12	32	601.2826	BOLT	AN3-11A		
8		8	8		8	31	601.2638	WASHER	NAS1149F0432P	
4		4	4		4	30	601.3002	BOLT	NAS6604-66	
2		2	2		2	29	647.1811	SPACER		
4		4	4		4	28	647.2511	NUT		
4		4	4		4	27	647.2510	SLEEVE		
.1306	.1305	.1304	.1303	.1302	.1301	FIND #	PART #	DESCRIPTION	MATL	SPEC.

BOM Table(Restructured)

ORIGINAL DATE 02-01-06  
 DRAWN BY J. MCNAMARA  
 CHECKED BY D. BARKER  
 DRAWING APPROVAL P. BRAVO 08/05/04  
 CONTRACT NO.  
 UNLESS OTHERWISE SPECIFIED  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES ARE:  
 2 PLACE DECIMALS .003  
 3 PLACE DECIMALS .0010  
 ANGLES .5°

APICAL INDUSTRIES  
 2608 TEMPLE HEIGHTS DR.  
 OCEANSIDE, CA. 92056-3512 (760)724-5300

EC145 CABLE CUTTERS KIT

SIZE 8 CAGE CODE 07M16 DWG. NO. 647.1300 REV. C  
 SCALE NONE SHEET 2 OF 9

# Work Order ID 104768

July-18-13 9:31:49 AM

**\*104768\***

Page 1

Item ID: 647.1302

Accept

**\*N900040100\***

Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: EC145 Cable Cutter Removable Provisions

Start Date: 7/18/13 Start Qty: 1.00

**\*1\***

Cust Item ID:

Required Date: 8/01/13 Req'd Qty: 1.00

**\*1\***

Customer:

Reference:

Approvals: Process Plan: *MLJ*

Date: *13-07-18* Tooling:

Date:

Run Start **\*NR1\***

QC:

Date: SPC (Y/N):

Date:

Stop **\*NR2\***

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

647.1300

*\* B 4/13-07-18 JB*

100

0.00

**\*100\***

DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile & type labels per PPP 647.1302

*MLJ 14-01-10*

110

Pick Kit

0.00

**\*110\***

Packaging

Memo

0.00

Packaging

120

QC4- 100% Inspect kits for completeness

0.00

**\*120\***

QC

Memo

0.00

Quality Control